VANDAL X

VX20

Instruction Manual

CLINTON Electronics

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The lightning flash with an arrowhead symbol, within an equilateral triangle is intended to alert the user to the presence of uninsulated dangerous voltage within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.

The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

INFORMATION - This equipment has been tested and found to comply with limits for a Class A digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications.
Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

WARNING - Changes or modifications not expressly approved by the manufacturer could void the user's authority to operate the equipment.

CAUTION : To prevent electric shock and risk of fire hazards:
- ◆ Do NOT use power sources other than that specified.
- ◆ Do NOT expose this appliance to rain or moisture.

This installation should be made by a qualified service person and should conform to all local codes.

Sales: 1-800-447-3306 Support: 1-800-549-6393 www.clintonelectronics.com

UL Safety Fulfillment

IMPORTANT SAFETY INSTRUCTIONS

1) Read these instructions.
2) Keep these instructions.
3) Heed all warnings.
4) Follow all instructions.
5) Do not use this apparatus near water.
6) Clean only with dry cloth.
7) Do not block any ventilation openings. Install in accordance with the manufacturer's instructions.
8) Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (includingamplifiers) that produce heat.
9) Do not defeat the safety purpose of the polarized or grounding-type plug. A polarized plug has two blades with one wider than the other. A grounding type plug has two blades and a third grounding prong. The wide blade or the third prong are provided for your safety. If the provided plug does not fit into your outlet. Consult an electrician for replacement of the obsolute outlet.
10) Protect the power cord from being walked on or pinched particularly at plugs, conveniance repeptacles, and the point where they exit from the apparatus.
11) Only use attachments/accessories specified by the manufacturer.
12) Use only with the cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the apparatus. When a cart is used, use caution when moving the cart/apparatus combination to avoid injury from tip-over.

S1125A

Figure 17-Dd — Portable cart warning

13) Unplug this apparatus during lightning storms or when unused for long periods of time.
14) Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power-supply cord or plug is damaged, liquid has been moisture, does not operate normally, or has been dropped.

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Warning

The camera requires periodic inspection.

Contact an authorised technician to carry out the inspection.

Stop using your camera if malfunction occurs.

If the camera emits smoke or is unusually hot for a long period, a fire may result. Unplug device immediately if device exhibits these symptoms..

Do not install the camera on a surface that can not support it.

If the camera is installed on an inappropriate surface, it may fall and cause injury.

Do not hold plug with wet hands.

It could cause an electric shock.

Do not dis-assemble the camera.

It may result in an electric shock or other hazards.

Do not use the camera close to a gas or oil leak.

It may result in a fire or other hazards.

Precautions

Do not install the camera in extreme temperature conditions.

Only use the camera under conditions where temperatures are between -20°F ~ 122°F. Be especially careful to provide ventilation when operating under high temperatures.

Do not install the camera under unstable lighting conditions.

Severe lighting change or flicker can cause the camera to work improperly.

Do not touch the front lens of the camera.

This is one of the most important parts of the camera. Be careful not to leave fingerprints on the lens cover.

Do not drop the camera or subject it to physical shocks.

It can cause malfunctions to occur.

Never keep the camera pointed directly at strong light.

It can damage the CCD.

Do not expose the camera to radioactivity.

If exposed to radioactivity the CCD will fail.

Notes

- If the camera is exposed to spotlight or object reflecting strong light, smear or blooming may occur.
- Check that the power satisfies the normal specification before connecting the camera.

Components

1. Camera

2. EVA Foam Ring

3. Torx Wrench

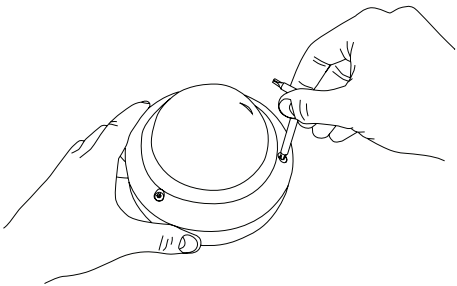
4. Mounting Screws

5. Instruction Guide

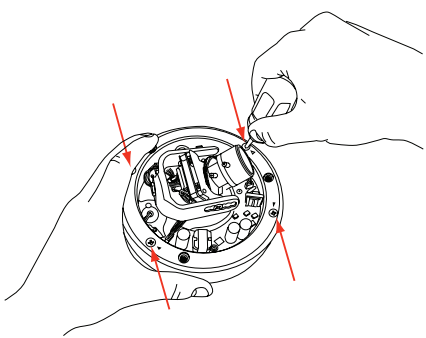
Installation

Installing the Vandal X Dome Camera:

1. **Opening the Case**
   Use the supplied Torx wrench to remove the 3 Torx screws that hold the dome assembly onto the base.



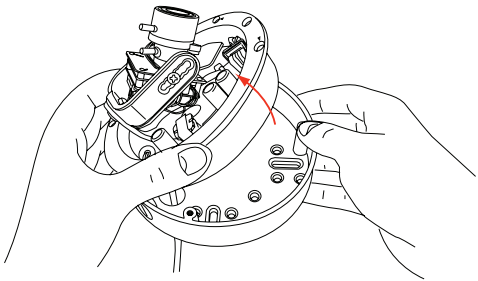
Locate and remove the 4 Phillips head screws that hold the inner case onto the camera base. **Note:** Arrowheads indicate screw location.



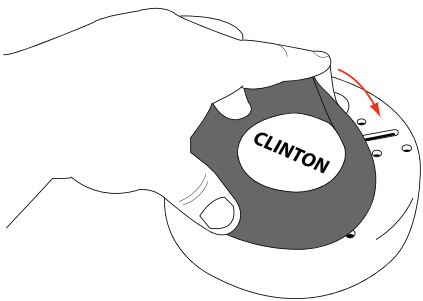
Installation continued

2. Mounting the Camera

Remove the camera assembly from the camera base as shown below.

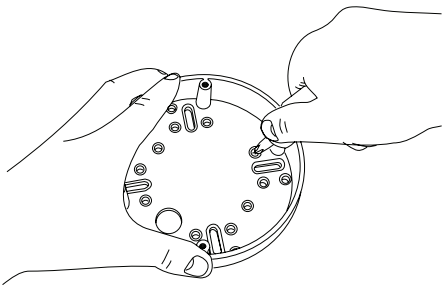


If desired apply the EVA foam ring to the bottom of the camera base as shown.

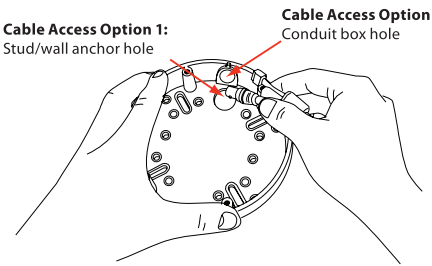


Installation continued

Secure the camera base to the desired mounting surface using the 4 supplied mounting screws. Choose the mounting hole pattern that best suits your application. Multiple mounting hole patterns are provided.



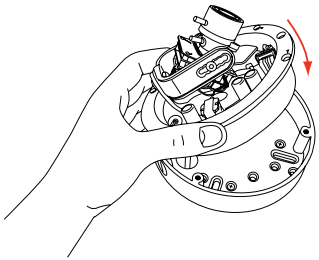
Feed the power and video cables through the desired access hole. Note the cable access options shown below.



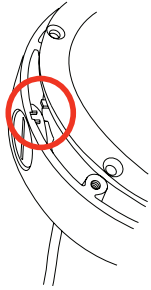
Installation continued

3. Reassemble the Camera

Replace the camera assembly into the mounting base as shown below.

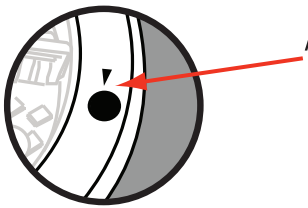


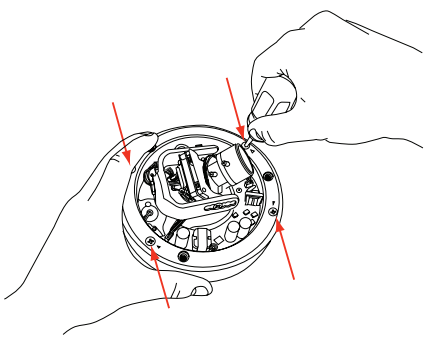
Align the tab with the slot when reassembling.



Installation continued

Replace the four screws that hold the camera assembly to the base.
Note: Arrowheads indicate screw location.





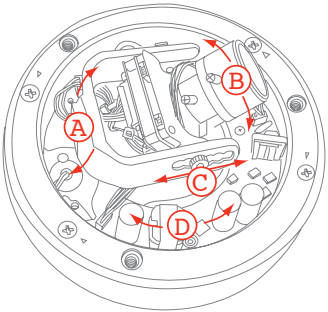
Before replacing the dome cover you may wish to test the camera with a test monitor. To test, plug in the CE-REMOTE into the DIN connection, and connect your test monitor to the BNC connection located on the CE-REMOTE cable. Refer to camera manual for detailed OSD adjustment settings.

Note: *Not all Vandal X Dome Cameras support this function. Refer to specification for OSD Adjustment and Test Monitor Connection compatibility.*

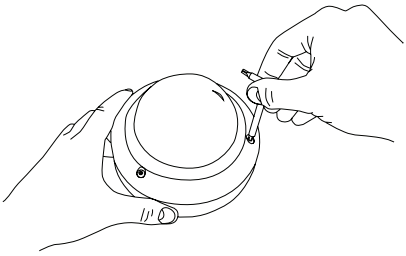
Adjustment

The Vandal X Dome Camera has four position adjustments:

A. Barrel rotation
B. Lens angle
C. Lateral adjustment (loosen thumb screws on each side to adjust)
D. Camera plate rotation (pinch the camera bracket by each thumb screw to rotate clockwise or counterclockwise)



Tighten the 3 Torx screws that hold the dome cover onto the base to complete installation. Make sure that each screw is tight to ensure superior weather resistance.



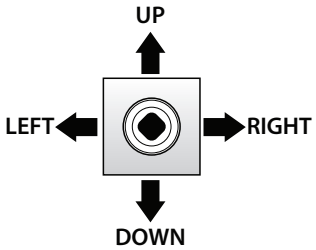
On Screen Display (OSD) Menu

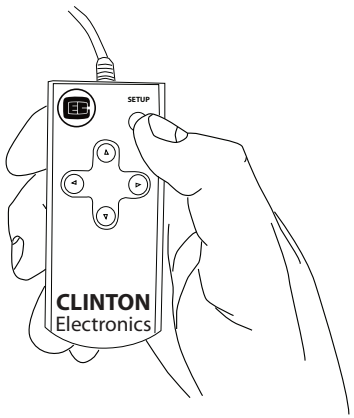
On Screen Display (OSD) Menu
Camera functions and settings can be adjusted or changed by activating the OSD menu. When the OSD menu is activated text will display on the monitor. The user can then move the cursor to the desired function to change the setting.

SETUP Menu			
LENS	• DC		
EXPOSURE	• SHUTTER • BLC	• AGC • D-WDR	• SENSE-UP • RETURN
WHITE BALANCE	• ATW • MANUAL	• AWB	• AWC -> SET
DAY / NIGHT	• COLOR	• AUTO	• B/W
3DNR	• ON	• OFF	
SPECIAL	• CAM TITLE • PRIVACY	• D-EFFECT • DEFECT	• MOTION • RETURN
ADJUST	• SHARPNESS	• MONITOR	• RETURN
RESET	• FACTORY	• RETURN	
EXIT			

Accessing the OSD Menu Settings

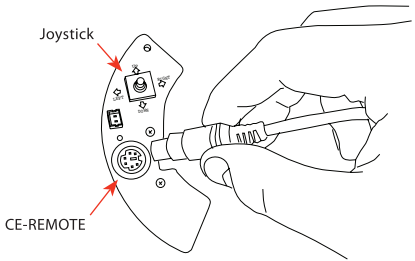
Settings can be made using the built-in joystick or the optional CE-REMOTE (sold separately).



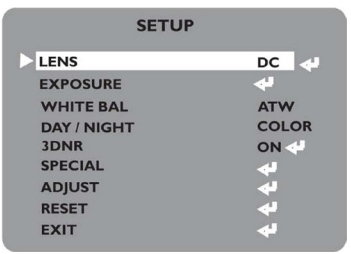


Accessing the OSD Menu Settings continued

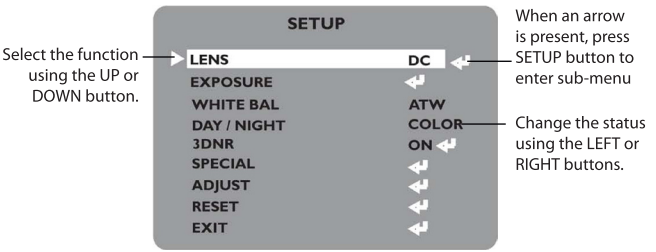
1. **Plug the CE-REMOTE into the port located at the bottom of the camera.**
   Joystick use: Press directly down on the joystick to activate the OSD menu.



2. **Press the SET button**
   The SETUP menu will be displayed on the monitor.



3. Move and select the required function using the UP and DOWN buttons.
Move the arrow indicator UP or DOWN to select the desired feature by pressing the UP or DOWN button.



4. Changing menu settings using the LEFT or RIGHT button.

- Available values or status are displayed by pressing the LEFT or RIGHT buttons. Press the button until desired value / status is displayed.

5. After completing the setting, move the arrow indicator to EXIT and press the SET button to EXIT.

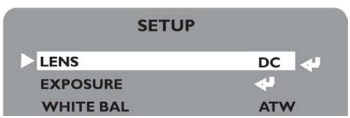
Notes
- Move to available submenus by moving ↵ arrow to the desired feature. Press Setup button on CE-REMOTE to select a submenu item.
- Submenu is not available when ---- symbol is displayed.

LENS (Adjusting the brightness level)

This function controls the image brightness.

1. **Move the arrow indicator to LENS using the UP and DOWN buttons on the SETUP menu screen.**

2. **Press SET to enter 'DC LENS' setup menu.**



DC: DC Auto Iris Lens

Press select to enter the sub menu for Lens. You can adjust the items below.

– BRIGHTNESS : Adjusts the video brightness.

Notes

- When DC is selected, the brightness can be adjusted. The brightness control range is 1 ~ 100.

3. **Press the RETURN to return to the SETUP menu.**

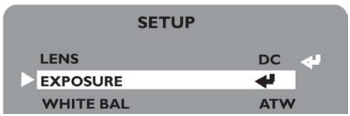
Notes

- If color rolling occurs when using the DC lens, set Shutter to A.FLK.
- Some lenses may not work properly, depending on the setting of the BRIGHTNESS LEVEL.

EXPOSURE

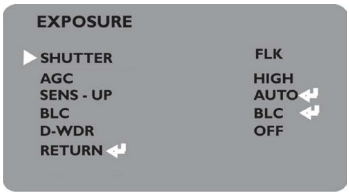
This function is used to select Automatic or Manual shutter speed control.

1. **On the SETUP menu screen select EXPOSURE by using the UP or DOWN button.**



2. **Select the desired SHUTTER mode by pressing the LEFT or RIGHT button.**

♦**SHUTTER :** Select FLK mode when flickering occurs; caused by the unmatched frequency of electric lights.



Notes

- To produce results with FLK, do not use it in conjunction with the WDR mode in the BACKLIGHT menu.
- Desired shutter speed can be selected by user 1/60, 1/250, 1/500, 1/2000, 1/5000, 1,10000, 1/100000, FLK.
- Brightness can only operate when selected the Manual mode (Option). When selected DC mode, brightness will be disabled.

♦ **AGC (AUTO GAIN CONTROL):**
A higher gain increases brightness but also increases any noise.

OFF : Deactivates the AGC function.
LOW : Allows automatic gain control to LOW.
MIDDLE : Allows automatic gain control to MIDDLE.
HIGH : Allows automatic gain control to HIGH.

♦ **SENSE - UP:**
At night and/or in dark conditions, the SENSE-UP mode can be selected desired value from x2 ~ x258.

If the AGC mode selected OFF, the SENSE-UP function will be Disabled.

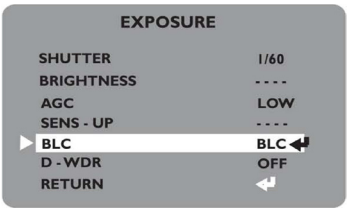
Notes
- Pressing the SET button in AUTO mode allows adjustment of image brightness by increasing or decreasing the shutter speed (x2 ~ x258).
- The higher the level, the brighter the image becomes, but it is possible that an after image (ghosting) could appear.
- When SENS-UP is activated the increased magnification can induce noise and pixilation; this is normal.

BACKLIGHT (BLC)

This camera provides intelligent light level control to overcome even strong backlight conditions.

1. **Move the allow indicator to BACKLIGHT using the UP or DOWN button on the SETUP menu screen.**

2. **Select the desired level by using the LEFT or RIGHT button.**



- **OFF :** BLC function does not operate.
- **BLC :** Users can select and define a specific area in a scene, and view the area clearly.
- **HSBLC :** When there are simultaneous brightness and dark image areas WDR makes both distinct.

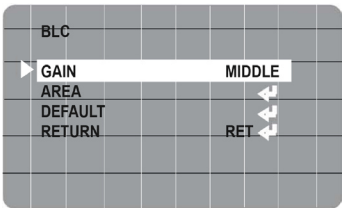
BLC ON

BLC OFF

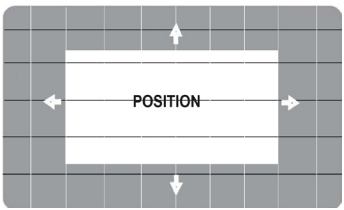
BACKLIGHT (BLC) continued

3. Select a mode using the LEFT and RIGHT buttons then press the SET button. Select BLC to adjust the desired BLC area and GAIN level.

♦ **GAIN :** Adjust the BLC sensitivity by selecting LOW, MIDDLE or HIGH.



♦ **AREA :** Press SET to enter the AREA function. Here you can adjust the position and size of the BLC area by using the LEFT/RIGHT/UP/DOWN buttons.



① Move the arrow indicator to select the WIDTH of cells to increase or decrease by using the LEFT / RIGHT button from 0 ~ 7 cells.

② Move the arrow indicator to select the HEIGHT of cells to increase or decrease by using the UP/ DOWN button from 0 ~ 7 cells.

③ Press SETUP to apply the desired settings and to continue on to SIZE. Press SETUP to apply the settings and move to the next menu.

④ If additional adjustments are needed, move the arrow indicator to AGAIN and press the SETUP button. If settings are complete select RET.

♦ **DEFAULT :** Press the Default to return to the factory default to change wrong input data.

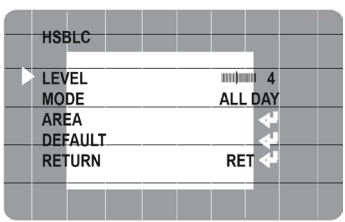
BACKLIGHT (BLC) continued

4. Select HSBLC (High Suppress Backlight Compensation) by using the LEFT and RIGHT buttons, then press the SETUP button to set up the desired HSBLC area and GAIN level.

HSBLC ON

HSBLC OFF

♦ **LEVEL :** Adjust the HSBLC sensitivity by selecting between 0 ~ 8.



♦ **MODE :** Select HSBLC active ALL DAY or at NIGHT ONLY.

♦ **AREA :** Press SET to enter the AREA function. Here you can adjust the position and size of the BLC area by using the LEFT/RIGHT/UP/DOWN buttons.

① Move the arrow indicator to select the WIDTH of cells to increase or decrease by using the LEFT / RIGHT button from 0 ~ 7 cells.

② Move the arrow indicator to select the HEIGHT of cells to increase or decrease by using the UP/ DOWN button from 0 ~ 7 cells.

③ Press SETUP to apply the desired settings and to continue on to SIZE. Press SETUP to apply the settings and move to the next menu.

④ If additional adjustments are needed, move the arrow indicator to AGAIN and press the SETUP button. If settings are complete select RET.

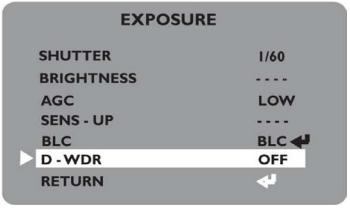
♦ **DEFAULT :** Press the Default to return to the factory default to change wrong input data.

D-WDR (Digital WDR)

This camera provides intelligent light level control to overcome even strong backlight conditions.

1. **Move the allow indicator to D-WDR using the UP or DOWN button on the EXPOSURE menu screen.**

2. **Select the desired feature by using the LEFT or RIGHT button.**



- **D-WDR :** When there are simultaneous bright and dark areas WDR makes them both distinct and can be selected as OUTDOOR and INDOOR.
- **OFF :** D-WDR function does not operate.
- **RETURN :** Select RETURN to save the changes in the EXPOSURE menu and return to the SETUP menu.

D-WDR OFF

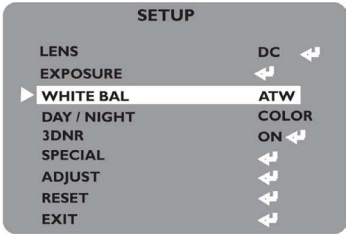
D-WDR ON

WHITE BALANCE

The WHITE BALANCE function is used to control the "on-screen" colors.

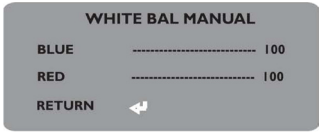
1. **Move the allow indicator to WHITE BAL on the SETUP menu screen using the UP and DOWN buttons.**

2. **Select the desired mode by using the LEFT or RIGHT button.**



*** There are four user selectable WHITE BALANCE settings available.**

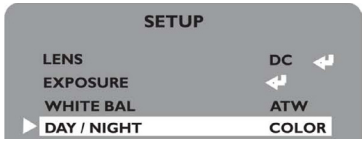
- **ATW (AUTO TRACKING WHITE BALANCE):**
  Normal setting: when the color temperature range from 1,800° K ~ 10,500° K. (Ex: a fluorescent lamp or outdoors).
- **AWB :** The WHITE BAL is automatically adjusted in a specific environment.
- **AWC → SET :** To obtain the best results press the SET button while the camera is focused onto white paper. If the environment, and/or light source changes, the WHITE BALANCE will require re-adjustment.
- **MANUAL :** Used for fine adjustment of WHITE BALANCE. Set WHITE BAL first using ATW or AWC, then change to MANUAL and press SETUP button. Increase or decrease the value of R-Gain (Red) and B-Gain (Blue) while monitoring the color of the image.



DAY / NIGHT

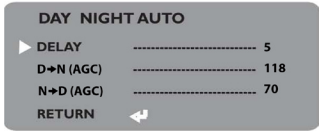
The camera image can be displayed in either Color or Black and White.

1. Select DAY / NIGHT using the UP or DOWN button on the SETUP menu screen.

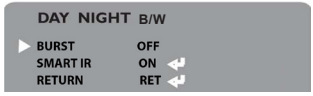


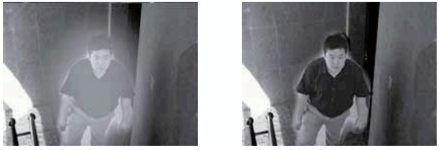
2. Select the desired mode by using the LEFT and RIGHT buttons.

- **COLOR :** The image is always displayed in Color.
- **AUTO :** The mode automatically switches to COLOR in normal conditions and switches to B/W mode when ambient illumination is low. To set the switching time or speed in AUTO mode, press the SET button.



- **B/W :** The image is always displayed in Black and White.
  - **S-IR :** The Smart-IR mode uses an external infrared sensor to determine light level and automatically switches from B/W to COLOR accordingly, and visa-versa. (This function may not be available on certain models).





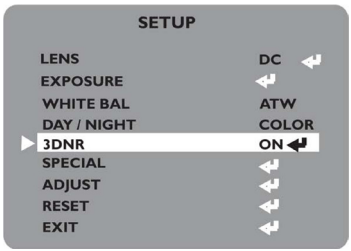
SMART IR OFF **SMART IR ON**

3. Select the desired mode and set the values by using the LEFT or RIGHT button.

3DNR

3DNR is used to reduce the level of background noise in a low luminance environment.

1. **Move the arrow indicator to 3DNR by using the UP and DOWN buttons.**



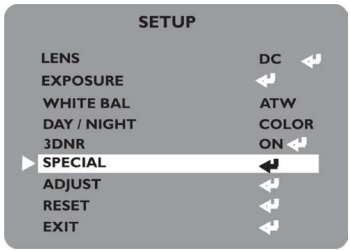
2. **Select whether or not to activate 3DNR by using the LEFT and RIGHT buttons.**

   - **ON :** Activates 3DNR - Digital noise reduction can be adjusted between 0 ~ 100.
   - **OFF :** Deactivates 3 DNR - noise is not reduced.

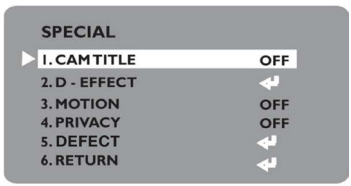
- Select RETURN by using the UP or DOWN button to return to SETUP menu.

SPECIAL

1. **When the SETUP menu screen is displayed, select SPECIAL using the UP and DOWN buttons.**



2. **Select one of the modes using the UP and DOWN buttons.**



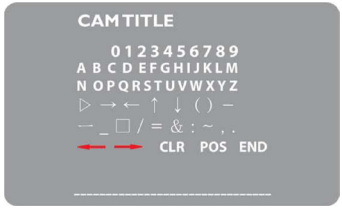
♦ **CAM TITLE :** When on, the CAMERA ID is displayed on the monitor.

1) Move the arrow indicator to CAMERA ID using the UP or DOWN button on the SETUP menu screen.

2) Set to ON using the LEFT or RIGHT button.

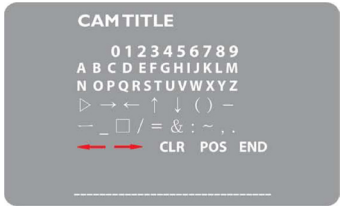
Notes
- When CAMERA TITLE is set to OFF, the CAMERA TITLE is not displayed on the monitor.

3) Press the SETUP button.



4) The CAMERA TITLE can be up to 15 alphanumeric characters in length.

① Move the cursor to choose an alphanumeric character.



② Choose a character in displayed range A~Z, a~z, 0~9 using the UP, DOWN, LEFT and RIGHT buttons.

③ Select the desired character by pressing the SETUP button.

— The cursor moves to the next position, after character input by pressing the SETUP button.

④ Repeat the above steps until the CAMERA ID has been created.

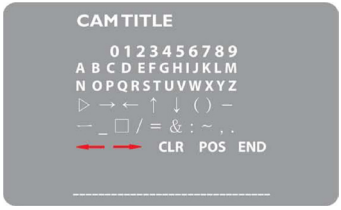
Notes

• In cases where the wrong CAMERA ID has been input:

Move the cursor to CLR and press SETUP button to erase characters from Left to Right, and repeat the above steps to input the characters again.

5) To select the position where the CAMERA ID should be displayed on the screen.

① Move the cursor to POS and press the SET button.



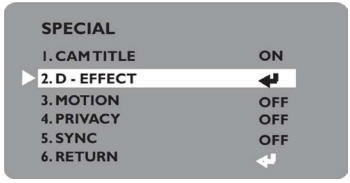
② Created CAMERA ID is displayed.

(Factory default position) →

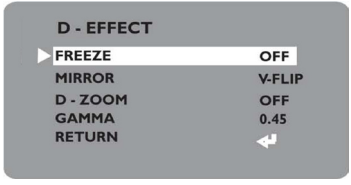
♦ CAM TITLE continued

③ Select a new position by using the four directional buttons. Press the SET button to confirm the position.

♦ **D-EFFECT :** Move the cursor to D-EFFECT and press the SET button to set the other image functions.

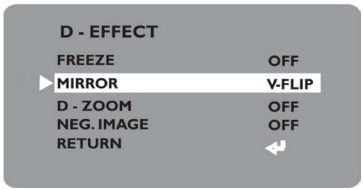


1) FREEZE : Image freezing or moving Image.



♦ D-EFFECT continued

2) MIRROR : Flip the image horizontal on the screen.

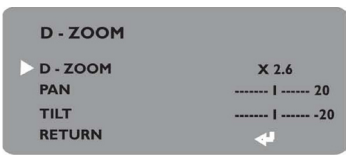


- ♦ **V-FLIP :** Flip the image vertically on the screen.
- ♦ **ROTATE :** Flip the horizontal image vertically on the screen.
- ♦ **OFF :** Disabled.

MIRROR ON

MIRROR OFF

3) D-ZOOM : Digital zoom available, range x1 ~ x32.
PAN : The pan range can be controlled between -10 ~ +100.
TILT : The tilt range can be controlled between -10 ~ +100.



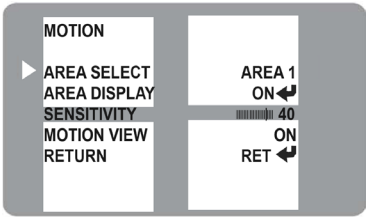
♦ D-EFFECT continued

Notes
• PAN and TILT function should be available when using the digital zoom.

4) NEG. IMAGE : ON : Activates negative image just like film
OFF : Normal image

5) RETURN : Move the arrow indicator to RETURN after complete the setup to return to SPECIAL.

♦ MOTION



1) When the SPECIAL menu screen is displayed, use the UP or DOWN button to access the MOTION menu.

① AREA SELECT : Determines the MD area selected AREA 1, 2, 3, 4.

② Move the arrow indicator to select the HEIGHT of cells to increase or decrease by using the LEFT / RIGHT button between the level 0 ~ 100.

③ Move the arrow indicator to the LEFT / RIGHT and TOP / BOTTOM to select the desired area position by using the LEFT or RIGHT button.

④ Move the arrow indicator to select the WIDTH of cells to increase or decrease by using the LEFT / RIGHT button between the level 0 ~ 100.

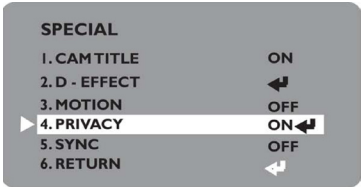
♦ MOTION continued

⑤ Move the arrow indicator to select the SENSITIVITY to increase or decrease by using the LEFT / RIGHT button between the level 0 ~ 40.

⑥ RETURN : Move the arrow indicator to RETURN after complete the setup to return to SPECIAL menu.

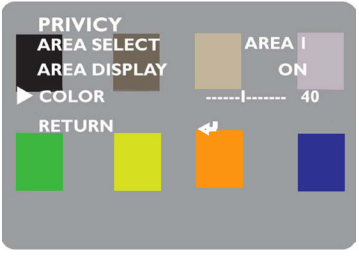
♦ **PRIVACY :** Mask an area you want to hide on the screen.

1) When the SPECIAL menu screen is displayed, press the UP and DOWN buttons to set to PRIVACY.



2) Set up the area mode using the 4 direction buttons.

① AREA SELECT : You can select up to 8 MD area.



② AREA DISPLAY : OFF : Disabled
ON : Activates area display

♦ **PRIVACY continued**

③ Move the arrow indicator to WIDTH to make desired width of cells to increase or decrease by using the LEFT / RIGHT button between the level 0 ~ 100.

④ Move the arrow indicator to HEIGHT to make desired height of cells to increase or decrease by using the LEFT / RIGHT button between the level 0 ~ 100.

⑤ Move the arrow indicator to the LEFT / RIGHT and TOP / BOTTOM to select the desired area position by using the LEFT or RIGHT button.

⑥ Move the arrow indicator to COLOR to select the desired color of each area cells by using the LEFT / RIGHT button between the 15 different colors.

⑦ RETURN : Move the arrow indicator to RETURN after complete the setup to return to SPECIAL menu.

♦ **DEFECT :** You can eliminate white spots (defects) up to 128 points.

① SENSE-UP : To eliminate defect, set the high level of sense-up. You can set to the max of 64x, however, 32x is ideal for eliminating defects.

② DIFF : You can set the size of DEFECT from 1 to 6.

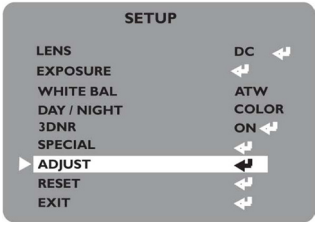
③ START : Press the "ENTER" button to start to eliminate defects. "PROCESSING NOW" will be displayed on the screen.

In case of a manual IRIS lens, you should cover the lens.

♦ **RETURN :** Move the arrow indicator to RETURN after complete the setup to return to SETUP menu.

ADJUST

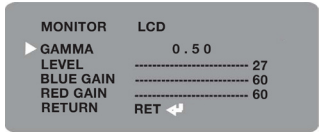
1. When the SETUP menu screen is displayed, select ADJUST using the UP and DOWN buttons.



ADJUST continued

2. Select the desired mode by using the UP or DOWN button.

1) SHARPNESS : Improving image clarity. The level can be adjusted to obtain an improved image. However, when the level is set too high it can distort the image or cause noise.

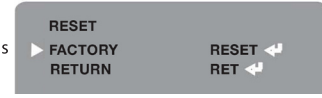


2) MONITOR : Select the appropriate type of monitor being used, and make the adjustments to the following if necessary:

① Select GAMMA to increase or decrease gamma level (LCD/USER modes)
② Select LEVEL to increase or decrease level
③ Select BLUE or RED to increase or decrease the value of R-Gain (RED) and B-Gain (BLUE) while monitoring the color of the image.
④ RETURN : Move the arrow indicator to RETURN after complete the setup to return to SPECIAL menu.

RESET

Pressing SET under the "factory/reset" selection will result in the camera settings being reset back to the factory defaults.



EXIT

Press the SET button in the EXIT menu to save the current settings and exit the SETUP menu.

Troubleshooting

If you have trouble operating your camera, refer to the following table. If the guidelines do not enable you to solve the problem, contact Clinton Electronics Technical Support at 1-800-549-6393 or 815-633-1444.

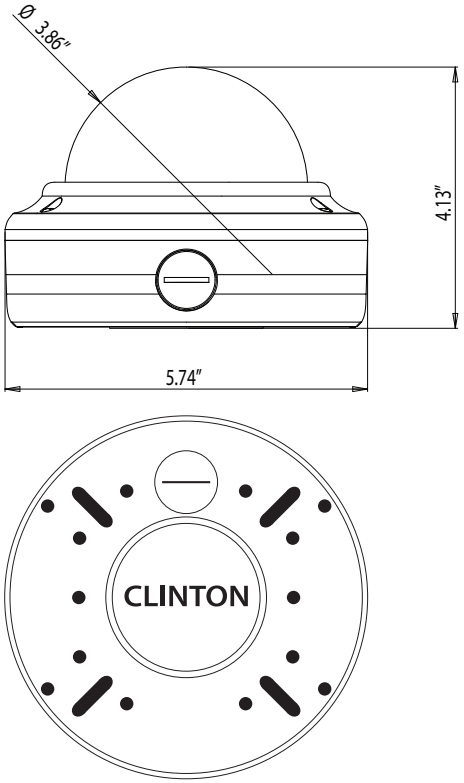
Problem	Solution
Nothing appears on the screen.	• Check the power cable, power supply output and video connection between the camera and monitor.
The video image on the screen is dim.	• Check if the lens is clean. Clean the lens with a clean cloth. • Adjust the monitor controls, as required. • Make sure that the screen is not exposed directly to a bright light. Move the camera if necessary. • Adjust the lens focus.
The image on the screen is dark.	• Adjust the contrast feature of the monitor. • If you have an intermediate device, set the 75Ω/Hi-z properly, and check the terminals.
There is a problem with the camera operation. The camera surface is too hot and black stripes appear on the screen.	• Check if an appropriate power source to the camera complies with the manufacturer's standard requirement, or if the voltage keeps changing.
The motion detection function is not working.	• Check if 'MOTION' mode is turned on. • Check if the SENSITIVITY is too low. • Check the setting of the motion 'AREA SELECT'.
The color of the picture is not correct.	• Check the WHITE BAL menu.
The image on screen is flickering.	• Check if the camera is facing directly into sunlight or fluorescent light. If necessary, change the camera position.
SENS-UP function is not working.	• Check if the AGC setting in the EXPOSURE menu isn't set to OFF. • Check the EXPOSURE menu and make sure SHUTTER is set to AUTO or 1/60.

Specifications

Camera	CE-VX20
Image Sensor	1/3 Inch SONY Super HAD CCD
Resolution	600 TV Lines
Effective Pixels	768 (H) x 494 (V)
Scanning System	2:1 Interlace
S/N Ratio	52dB
Sync System	Internal
Scanning Frequency	15.734 KHz (H), 59.94 Hz (V)
Minimum Illumination	0.00001 Lux / F1.1 (Sens-Up x258)
Shutter Speed	AUTO, 1/60, FLK, 1/250 ~ 1/100,000
Dynamic Range	52dB (Max.)
Lens	2.8 ~ 10.5mm (F1.2)
Video Output	1.0 Vp-p, 75Ω
Power Consumption	Max. 110mA (AC24V), Max. 220mA (DC12V)
Power Requirement	DC12V / AC24V
Operating Temperature	-20°F ~ 122°F
Weather Rating	IP 68
Dimensions	5.74" (Dia.) x 4.13" (H)
Weight	2.75 lbs.
OSD Menu	**Control with OSD Joystick or Optional CE-REMOTE**
Lens	DC
Exposure	Shutter / AGC / Sens-up / BLC / D-WDR
Back Light	Off / BLC / HSBLC
White Balance Control	ATW / AWB / AWC->SET / Manual
Day / Night	Color / Auto / B&W
3DNR	Off / On
Special	Cam Title / D-Effect / Motion / Privacy / Defect
Adjust	Sharpness / Monitor

Information in this document is subject to change

Dimensions



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